MAY BULLETIN 1970
VOL.1 SAN ANTONIO RADIO CLUB. NO.4

President--Ivan Mangold, WA5RNV
Vice President--Floyd Roland, W5JKU
Secretary--M. D. Harris, K5PKX
Treasurer--Frank Box,WA5VFM
Sgt.@ Arms--
Les Eggleston,WA5GOQ

Meets first and third Fridays at 8:00 p.m at the Civil Defense Headquarters, 115 Auditorium Circle. All who have an INTEREST in amateur radio are cordially invited to attend.

Bulletin Editor, Dean Davis, W5BGE. Published Bi-monthly (hopefully!)

_·••_ _·••_ _·••_ _·••_ _·••_ _·••_ _·••_ _·••_ _·••_

THE PRESIDENT'S CORNER

By

WA5RNV

FIELD DAY IS JUST AROUND THE CORNER --June 27-28. The same area as last year in the Northeast Preserve, on Jones-Maltzburger Rd.--just north of Blossom Stadium, which is north of the airport--has been reserved again this year. Frank Gerwitz W5QMH, and Leonard Ohms K5IEG have accepted co-chairmanship of this event. They are looking for H-E-L-P!! All interested amateurs in the San Antonio area are invited to participate in this chance to utilize amateur equipment under emergency conditions for a continuous 24 hours. Field Day will begin at 1800 Z (1 p.m. CDST) Saturday, June 27. If you can help for any portion of the 24 hours, please contact Frank 734-5598 or Leonard 344-5372. ALL NOVICES ATTENTION! If there is enouch interest from the novices, a transmitting site will be set aside for them. This is something new, the F-D Rules are permitting this for the first time.

F L A S H!!!--The SARC is privileged to announce that at the next regular meeting of the Club, May 15, 8 p.m., Dr. Tom Glass W5ULP will present a talk on snake poisons. He is recognized as being a national authority on this subject, having prepared many papers for medical journals and talked before many medical and other groups. If you are interested in knowing what is best to do for a snake bite, and learn about snake poisons in general, COME and BRING your families and FRIENDS.

C O D E and T H E O R Y class is now back in operation after a two week lay-off on account of Jewish Holidays.

Another two months have passed and our club has grown again. George W5LFG, Bobby K5AUW, George W5VPQ, Ella W5TSE, Leo W5IPL have renewed. Welcome back. We are all pleased to welcome eight new members, especially the young people! By golly, we are glad to have you, and if we can help, just holler. Follows is a little info on them!!

W5UKN-Charles R.(Chuck) Settles, his XYL is Louise, with their two children live at 5419 Knoll Krest, 674-6833. Chuck first saw light of day at midnite Dec. 3 in Big Spring, Texas. USAF (Ret) but working for USAF in test equipment repair. Has traveled a lot and held these calls: W7TED, W7TED/KH6, KR6IN. Hobbies are radio and fishing, and operates on 80 thru 10 CW-SSB-AM.

W5HBI-Raymond V. (Ray) Davis, his XYL is Laura, have 3 children and 1 grandchild, live at 119 Gazel Dr., 342-8023. Ray was born Jan.26 in Hallettsville, Texas. Says he's worked for Grandpa BELL for 25 years as a repeaterman. Hobby is camping, works all bands 75-10 and 75-40 mobile, uses a Duobander on mobile work. Any of you committeemen need help, here is your man.

WA5ZDF-Howard E. Decker, (Finally got this character to tell all!) - Lives at 2141 W. Kings Highway, 732-6001, father of 4 children, sez the stork delivered him during a sandstorm, 13 Feb. in El Paso,Texas. A graduate engineer (A&M) and an executive with Jud Plbg. & Heating. His son WA5VTU is a Collins Tech Rep. now in Viet Nam. Howard works 75-10 using a FTdx 400 and all of the goodies that come with the line.

WN5BGV-John A. Thompson, got liberal and let us have $5.00 but won't say anything. Constitutional rights???

WN5ARM-William E. Moerner, 3622 Anaconda Dr. 734-6395-born 24 June in Pasadena, Calif., president of Jefferson H. S. Radio Club, and Eagle

Scout, with a number of Science and Math awards. W.E. is working the novice bands using a Globe Scout and a HR-10B. Look out fellows, here is another potential California Kilowatt.

WB5ARB-Larry E. Perry, 142 Vaughan, 734-0226, arrived in San Antonio via carrier pigeon July 7. Larry is a student at Jefferson, and is interested in electronics and all water sports. Runs a DX-40 and a National, needs a few xtals for gen class bands till he can get a VFO or SSB rig. Any helping hands?

WN5APU-James (Jim) Ratliff, 438 Meredith, 735-5795, born in San Antonio Feb. 7. A student at Jefferson, and says ham radio and electronics are his only hobbies. (How about girl chasing, Jimmy?) Rig is a T-60 and HQ-110. Care to loan him a novice xtal or two?

WA5QHG-William A. (Bill) Way, xyl is Gladys, 215 E. Cheryl, 433-5154, a native of San Antonio, having arrived on Jan. 12. Bill was exposed to higher education at Texas, St. Mary's U, & Trinity and belongs to one of those Greek foreign **fraternities**. Has been an associate prof. at SAC for 10 years. His hobbies are many and just happen to include amateur radio. Runs a homebrew xmtr and a 75A-1. By the way, Gladys had to fork up her own money for her membership; she was born 6 June, in Pampa, Texas, attended Incarnate Word H. S. and College. Hobbies are ART, lookout Ruth, here's another Starving???Artist.

W5IPL-Leo Stewart, Jr., and his **xyl** Mary were our official club representatives at the Dayton HAMVENTION April 24, 25. Gave a big TEXAS "HOWDY" for SARC.

HAVE Y-O-U BROUGHT IN A NEW MEMBER??? Six months left on your promise to do so.

At May 1st meeting, WA5OMB-Joe Gallagher joined SARC. His address is 120 Elizabeth Rd., 826-7553, Zip 78209. More info later.

73's - Ivan WA5RNV

—•••— —•••— —•••— —•••— —•••— —•••— —•••— —•••— —•••—

PUBLIC SAFETY COMMUNICATIONS

By

W5MIF

The history of Public Safety communications spans over half a century. The first recorded usage of radio for police service was by harbor police in New York City around 1919. These first attempts at radio-telephone communications were beset from the beginning with difficulties. A proper power source to operate mobile receivers was one of the difficulties.

In 1922, the Federal Radio Commission authorized the police department of the City of Detroit, Michigan to use a broadcast station for transmitting calls to mobile police units. One stipulation of this commission was that entertainment be provided whenever no police calls were being boradcast. Fitting its usage, the radio commission assigned the call of KOP to the City of Detroit. It is said that, in order to provide the entertainment required by the commission, the police band had many thorough workouts.

Operation was not altogether successful in Detroit. Due to the fragile nature of vacuum tubes in those days, and power supply requirements, other cities were slow to follow suit in the establishment of police communications.

Then, about a decade later, St. Louis, Missouri, followed closely by San Antonio, Texas in March 1932, established the second and third one-way broadcast systems for police in the nation. The San Antonio station was operated jointly by the State of Texas and the City of San Antonio. A Mr. Kenneth Barbier, employed by International Business Machines, was given a contract which included the installation of a base station; a Western Electric model 9-C. About thirty mobile receivers, some of them in Model T and Model A Fords, were installed and then, on the 2nd of June 1932, KGZE, the police radio station went on the air, operating on 1482 kilocycles.

Mr. Edward Conroy, a young man of 23 years of age, recently graduated from Notre Dame with a BS degree in Electrical Engineering, was chosen to head the radio maintenance section of the department. Also employed were Mr. Vic Gallagher and Mr. Albert Duran to maintain the base

station and the thirty mobile units.

Some old timers still remember the dispatcher identifying the station as "KGZE, the Texas State and San Antonio Police Department." On a winter's night, KGZE could be heard better in Missouri than in some sections of San Antonio. During World War II, service personnel from San Antonio listened to KGZE while stationed in Hawaii.

The antenna used was approximately thirty-five feet off the ground, strung between the police garage at St. Mary's and Market, across from the detective headquarters on Dolorosa. In 1933, a new antenna was installed. First, a horizontal wire was strung from the top floor of the Alamo National Bank Building across to the Tower Life Building (then known as the Smith-Young Tower), with a vertical, radiating portion dropped down to the transmitter site located atop the police garage. Shortly after the installation in San Antonio, in 1933, other Texas cities followed with police broadcasts. These cities included Beaumont, Houston and Dallas.

Ed Conroy left the employment of the City in 1937 and his place was taken by Mr. Vic Gallagher who remained head of the radio maintenance section until his untimely death in the Spring of 1947. During the year 1937, in which Vic assumed his duties, the first mobile transmitters were placed in operation on Hallowe'en night. There were 7 of them, built by the radio maintenance section, and with the valuable assistance of Mr. George Ing, who for many years has remained chief engineer for KONO radio (and KONO-TV while owned by the Roth family) and KITY-FM. These units were AM and operated on a frequency of 33.22 megacycles. The RF power output tube in the first sets was a 7C5, and a 7C5 was also used as the modulator. Some of the "high powered" units constructed a little later used a 6L6 as RF power output. Base station receivers were located at several sites, including Woodlawn Lake Island, the Alamo National Bank building and Fire House #9 on Delmar St., in Southeast San Antonio. The first mobile transmitters utilized a newly developed device in the power supply known as a "vibrator." Even so, the current consumption was too much and Chief of Police Kilday had battery chargers installed at strategic "light poles" and officers, between calls, charged their car batteries. The receivers used in the 1930's were manufactured, primarily, by the Philadelphia Storage Battery Company, later known as Philco. These receivers, unlike the very first ones, used a crystal controlled oscillator.

In November 1949 the police department in San Antonio installed the first VHF-FM radio system in the public safety services in Texas. Operation with a single channel on 155.37Ø megacycles, and old KGZE on 2482 kilocycles, simulcast until midnight, June 30, 1950. At this time KGZE discontinued operation and our present call sign of KKD399 was assigned by the Federal Communications Commission. The initial shipment of radio units consisted of 102 Federal units, along with a small number of Link motorcycle radio units.

Dispatching service was also provided to around fifty units operated by Bexar County, primarily in the Sheriff's Department, until the Summer of 1952 when the county established their own channel on 155.79Ø megacycles. In a cost-sharing arrangement, between the city and the county, radio maintenance has always been performed by the City's technical staff.

On Hallowe'en night of 1954 the second public safety communications system was established in San Antonio, operated by the Fire Department. Although a number of cities preceeded San Antonio in the establishment of a fire department radio system, ours was unique in that it was the first city in the nation to provide a base station at every fire house. Since that time and following within the next two years, the City of St. Louis and Laredo, Texas installed base stations at their fire houses. Now, practically every city in the nation utilizes a similar system.

The third public safety communications system was installed, beginning in December 1968 and completed in February 1969. This "local government" system was licensed to provide radio services to department other than the police and fire departments, and included Public Works, Housing-Inspections, Health, Parks and other subdivisions of the city. Ours was the second local government license issued in the nation, being preceeded by the small town of Laguna, New Mexico. Today, in addition to the original frequency of 158.76Ø MHz., we utilize a second channel on 158.82Ø MHz.

The police service has grown to such an extent that, today, six channels

clustered around 155 mHz. are being utilized. Two of these channels, so-called channels 1 and 2, are on the air 24 hours a day with channel 1 serving, roughly, the Northwest part of the city and channel 2 the Southeast section. A third channel provides communication to traffic units and the downtown area from around 6:00 a.m. until around midnight, at which time officers shift to channel 1. Emergency calls can be transmitted over three or more channels simultaneously. Other than the three channels mentioned, the three others provide for miscellaneous type services, with one channel being reserved for intercity communications.

With the advent of solid state circuitry, the total number of personnel within the past eight years has been reduced from a total complement of ten to seven. The reduction in the number of employees is attributable, in part at least, to the improved reliability of transistorized mobile units. Only four licensed technicians are employed.

The total number of mobile, base and portable radio units has risen to well over the 1,000 mark. Included are over fifty base stations scattered throughout the city and county.

In addition, some fifteen radar speed meters, some 150 audio amplifiers and paging systems, several moisture/density units utilizing radioactive sources, certain civil defense communication equipment and other electronic devices are maintained.

Among the hams working with the Police Department are: W5ABQ-Jerry Morgan, K5MZH-Koby, K5QTE-Norm Jarke, W5JAJ-Jack Flesher, K5ALF-Zeke Zelesky, K5MLR-Jerry Gutierrez, WA5EIU-Paul Small, W5IRJ-Dansby, WA5EJJ-Sonny Mosel, K5ISA-Bill Terrell, WA5JDS-Gene Pizzini, WA5QKB-Frank Hoyack, W5MIF-Rocky Rhodes, K5SUZ-Dial, WA5GCG-John Lewis, K5OSY-Gladys Zinsmeister. Club Station is K5SRO.

73's. W5MIF-Rocky.

-•••- -•••- -•••- -•••- -•••- -•••- -•••- -•••- -•••-

ALAMO YL CLUB

By

W5TSE

"Alamo Ladies Amateur Microphone Organization" was formed September 1959 with nine licensed charter members: W5KQG-Frances Bruemmer, K5OPT-Ruth Kank, W5TSE-Ella Munsch, W5WXT-Inez Cole, K5YCE-Gerry Buchanan, K5TSZ-Katherine Pirrie, K5OPS-Ethel Chastain, K5PDI-Mary Carmack (deceased 1960), and W5IOZ-Miss Pauls Bettis.

Purpose of the organization is to encourage more interest in amateur radio as a hobby. So a little further along we added K5OPV-Aileen Furnage, K5UMU-Betty McSwain, WA5GZO-Peggy DeLay, and W5DIV-Ann Harrison of Refugio, Texas.

When the group first started we had a 2-meter net, and one on 40-meters, and as time went on we designed an Alany YL certificate to be issued to any station working 4 members of the club. For those of you who collect them, this is a very lovely certificate.

We have been written up in CQ and QST, have sponsored foreign DXYL's HK3FV-Marie C. Alvarez from Columbia, and DL3CO-Marlene Schmidt from Germany. We also obtained and sent out 40 post office directories to needy DX hams.

Interests vary in what the girls do--some participate in the YL contests held during the year and have many awards to show for their efforts. Others keep an occasional sked with an out of town friend. We also were hostesses for the ladies activities at the National ARRL Convention here last June 7,8,9, 1968.

At the present, we are not very active, but usually have a couple of social functions a year with our OM's, this is usually a party or picnic.

We are interested in knowing and meeting other licensed gals in San Antonio and we's like to invite them to contact us and perhaps we can schedule a meeting so we can all get acquainted.

73's. W5TSE-Ella. CALL W5KQG-Frances DI4-5134 for info.

JUNQUE-BOX TACHOMETER

By W5PEK

Coming under the heading of gimmics and gadgets is this simple, but interesting device.

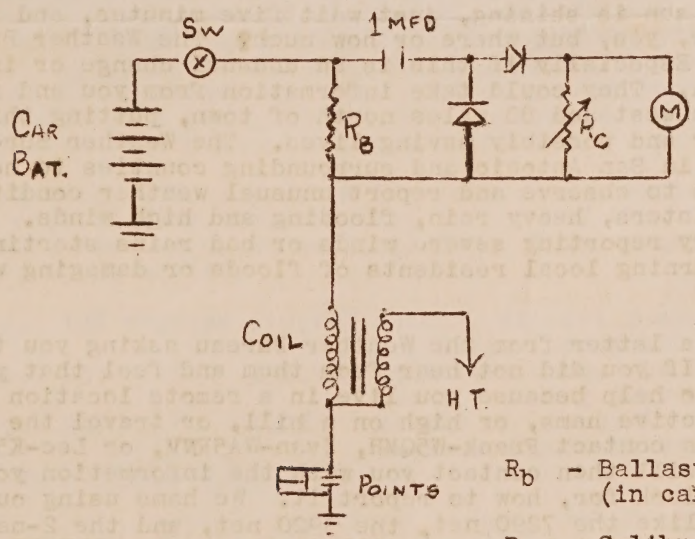
Using solid state pulse counting circuitry, the tachometer described in Figure 1 may be used on any 12 volt vehicle which uses a ballast resistor between the ignition switch and the coil.

The device is so simple, it is actually a bit difficult to describe, so let me merely state that the dual diodes count the pulses across the ballast resistor and displays the analog result as an upscale reading on the meter.

No special components are required. The diodes and capacitor should be capable of withstanding somewhat more than 12 volts, possibly 200 volts, to provide protection from inductive voltage kicks in the coil primary as the points open and close, although this is not really a factor.

The meter may be anything convenient, say a 1 ma movement. In any case, the system must be calibrated by shunting the meter with an appropriate resistance. Calibration should be done against a known meter for accuracy, changing the shunt resistor to compensate for ballast resistor values and meter movement differences.

Connecting the tachometer is simple. Connect the wire from the capacitor to the battery circuit. It is not necessary to connect this wire to the ignition switch. Any battery connection under the hood will be satisfactory. Connect the other lead to the battery terminal of the coil. Mount the meter inside the car, as desired. With adequate calibration, and possibly re-scaling the meter face, satisfactory tachometer readings will be obtained.



R_b - Ballast Resistor (in car)

R_c - Calibration Resistor (as required).

73's. W5PEK-Ole.

-·--- -·--- -·--- -·--- -·--- -·--- -·--- -·--- -·---

FOR SALE

"FOR SALE" ITEMS WILL BE USED AS SPACE PERMITS

Hallicrafter SSB Transceiver #SR-150, Power Supply 12VDC #P-150DC, Whip Ant., Mic., Spkr. & Mount for set. $300.

K & E 12" Log, Log Duplex Slide Rule - $10.

AM Rig less RF exciter. PP 810's, RF driven by 813. Coils for 10 & 20 meters. Audio speech amp. into PP Class 838's. Separate pwr. supplies (866's) for RF & AF. D-104 mic. $100.

Those interested call: JOE PORTER-W5EIS - 235 Furr Drive - PE4-6061 San Antonio, Tex. 78201

MY FATHER

My Father may not be the world's best C.W. communicator, but when it comes to voice communication, he's tops in our opinion. In the annual 1970 Toastmaster Club - Serious Speech Contest, he placed FIRST. From here he will go to the Area 9 Serious Speech Contest, where all the other club's winners will compete for first place. In all he has been a member of Toastmaster"s for six years.

Toastmaster's is an organized group which provides its members a program to improve their abilities in communications and conducting meetings and to develop their leadership and executive potential.

Toastmaster's, International is a non-profit organization of more than 3,500 Toastmasters Clubs in 47 countries of the free world. It was founded in 1924, and since that time more than a million men have benefitted from membership in Toastmaster's Clubs.

The Toastmaster's Club can help you to: (1) master the art of effective communications; (2) make a poised, self-assured appearance before an audience or individual; (3) listen carefully to what others are saying; (4) think critically about what you hear; (5) develop the ability to accept evaluation; (6) prepare for conducting and participating in meetings; (7) develop leadership abilities.

And so - who knows better than we do, because he communicates with us every day. About school, and Boys! Boys! And more Boys!. We'd like to say we're proud that our father is capable of winning every speech contest that he enters.

73's Linda and Brenda Trappe (Twin daughters of WA5IBD-Albert Trappe)
(Editor's Note: Please read this item on Fathers' Day, June 21st.)

-•••- -•••- -•••- -•••- -•••- -•••- -•••- -•••- -•••-

WEATHER OR NOT

So what if the sun is shining, just wait five minutes, and it will change. Change, yes, but where or how much? The Weather Bureau would like to know. Especially if this is an unusual change or in an unlikely location. They could take information from you and fellow hams 50 or 100 miles west and 80 miles north of town, putting this information together and possibly saving lives. The Weather Bureau has asked amateurs in San Antonio and surrounding counties to help. They would like hams to observe and report unusual weather conditions, any hurricanes, twisters, heavy rain, flooding and high winds. A ham in the Hill country reporting severe winds or bad rains starting in his area, may be warning local residents of floods or damaging winds heading our way.

If you receive a letter from the Weather Bureau asking you to help, please reply. If you did not hear from them and feel that you are in a position to help because you live in a remote location or in a town with few active hams, or high on a hill, or travel the same area regularly. Then contact Frank-W5QMH, Ivan-WA5RNV, or Lee-K5HZR. The Weather Bureau will then contact you with the information you will need. What to look for, how to report it. We hams using our own gear and nets, like the 7290 net, the 3920 net, and the 2-meter repeater facilities and telephones, will do the rest. PLEASE HELP!!!

73's. W5QMH-Frank. EC for Bexar County.

-•••- -•••- -•••- -•••- -•••- -•••- -•••- -•••- -•••-

THE QCWA MET April 20th at the DeLay's, W5DUI-Dan and WA5GZO-Peggy. Old QSL cards were brought and"discussed" Decision was made to operate 20 CW on Field Day. August picnic was planned. W5LPO-John Shean.

-•••- -•••- -•••- -•••- -•••- -•••- -•••- -•••- -•••-

EDISON HIGH SCHOOL experimented with MINI classes in various fields during the week of April 16th, and asked help from the San Antonio Radio Club. Frank-WA5VFM gave code lessons for three days. Rocky-W5MIF gave theory lessons for two days, and Ivan-WA5RNV demonstrated his Duo Bander for the class the last day. Several of the students will eventually become hams. One is now ready for his Novice tests.

-•••-

MAKE PLANS NOW TO ATTEND THE WEST GULF ARRL CONVENTION
JULY 17 - 18 - 19, ORANGE, TEXAS

SAN ANTONIO, TEXAS. 14 MAY 1970

ARRL ARRL THE DIRECTOR SPEAKS ARRL ARRL

I talked to ARRL President Bob Denniston WØDX, and Doug DeMaw - W1CER, at the recent Board meeting about the West Gulf Division Convention to be held in Orange, Texas, July 17, 18, 19, and reminded them of their commitment. They both assured me they planned to be present. I strongly recommend every amateur make plans to attend and meet these two gentlemen. They both represent the forward look in amateur radio.

QST for May, 1970 is notable in that transistors, rather than vacuum tubes, are featured in all the technical articles. This metamorphosis was not unexpected. The new techniques are not simpler than vacuum tubes from the standpoint of theory. They do, however, offer simplet constructional advantages, and have already sparked an increase in home construction activity. Our ARRL Amateur Radio Handbook editor, Doug DeMaw, is a leading exponent in the use of the new techniques. Doug will be a featured speaker on the technical program section of the convention.

As stated in my Director's Letter No. 5, the two principal topics of discussion at the board meeting in Hartford on 1,2,May, were the proposed (1) fone band expansion, and (2) VHF-FM rules.

Our legal counsel, Bob Booth, W3PS, is now engaged in putting the ARRL recommendations into suitable format for presentation to the FCC. No attempt will be made here to discuss them in detail. Most all FM enthusiasts are now familiar with either the ARRL Committee recommendations, the Texas VHF-FM Society comments, or the Tulsa Repeater Association statements. With minor exceptions ARRL will concur. The ARRL presentation will be available as soon as Bob can get it worked up.

With respect to the proposed fone band expansion, no such uniformity was found to exist. Your Director did the best he could, with the factual information available to him, and after listening to very lengthy pros and cons from other Directors. At best, it can be stated we are not in agreement, even without considering the very important national and international aspects. This may come somewhat as a surprise to those highly vocal CW and FONE partisans. Look at these figures, derived from replies to my questionnaire:

Approximately 4500 copies of the letter were mailed. As of 22 April, 660 replies were received (had to cut off then in order to summarize in time for the board meeting. Roy) This number represents 14.7% of the total mailed.

RESULTS: a. 126 replies (19.1%) concur, without reservation, in Mr. Griggs' proposal.
b. 237 " (35.9%) indicated change is needed but differ in varying degree with proposal.
c. 297 " (45%) stated NO change in frequency allocations should be made AT THIS TIME.

Who, by license class responded?:

	EXTRA	ADV.	GEN.	COND.	TECH.	NOVICE	NO LICENSE
126 concurring in the Griggs proposal	19	61	24	18	2	2	-----
237 suggesting change but not entirely concurring in the proposal	33	103	63	20	14	4	-----
297 opposing any change at this time	80	104	77	11	11	11	3

The failure of more persons to respond to my questionnaire was a disappointment. This is a matter of profound importance to all radio amateurs and I suspect this complacency when the Incentive Licensing program was first proposed is what is now being seen as unhappiness with the present licensing structure by those most affected.

Quite obviously many of the other 15 Directors were faced with a similar dilemma. The nearest point of unanimity I observed in the

replies to my letter is the expressed intention of a great majority to upgrade their license class. This fact, coupled with the need to consider the International aspects (i.e. our need to have support at the future ITU frequency allocation conferences), and the expressed opinion of almost half the members that we need to give the Incentive program more time to operate before we attempt to make changes, caused me to believe that expansion into the CW portions of the bands, at this time, would be unwise.

I did support the proposal to extend the General class segment, on 80 meters, down to 3850 kc. In final action, however, the Board did not recommend any changes in the frequency allocations structure.

June QST will contain a summary of Board actions. Full minutes will appear in July, QST.

In recent action the ARRL Executive Committee voted to allocate $1500 for administrative support of AMSAT. This money will be used to aid in development of amateur satellite No. 6. This should be a matter of particular interest to the FM group as it is planned to provide provision for repeater operation on this one. Our amateur satellite No. 5 has discontinued operation. Incidentally, if you are interested, the Chinese satellite can easily be heard broadcasting the "Meow-Meow" message on 20.9 megacycles, on an ordinary communications receiver.

ARRL General Counsel Booth has made an eloquent plea for reconsideration by FCC of its proposal to increase amateur license fees. Counsel Booth stated the League's objections in a very logical manner. We hope the Commission will give consideration to the amateur's special case.

Recently, a station was heard broadcasting music in the 40 meter band, interspersed with announcements, but without station identification. A telephone call to the Houston FCC office sufficed for Ray Williams' alert bird dogs to spring into action. The varmint was caught in the act red-handed. Needless to say, he is now the unproud possessor of an FCC citation.

Field Day is coming soon. Aside from the pleasure always derived from participation in this most enjoyable annual event, the more serious aspect of preparing ourselves to provide communications in time of emergency or disaster needs be given careful consideration. This year, after we are in the field, and operating, let's ask ourselves two questions:

(a) What would we need to do to insure continued operation if we were undergoing wind and heavy rain?

(b) What do we need to do to maintain operations 24 hours per day, for several days, particularly if it should be necessary to transport the station to the coast or other disaster location some 200 miles away?

73,

ROY L. ALBRIGHT W5EYB
Director, West Gulf Division.

ADVANCE Copy

San Antonio Radio Club
Box 62
San Antonio, Texas 78206
W5BGE

ELLA MUENSCH, W5TSE
11314 SANET LEE
SAN ANTONIO TEX
78230